

Chesterton ARC 10 Paste grade machinable composite

Category : Polymer , Thermoset , Epoxy

Material Notes:

Description: A reinforced composite for the repair and protection of metal surfaces. It is machinable with excellent compressive strength, chemical resistance and corrosion resistance. It is non-sagging, non-shrinking, and 100% solids. The ARC 10 is formulated for applications where machining to exact tolerances is required or desired. It is frequently used as an alternative to resurfacing by welding or flame spraying. ARC 10 is easily mixed and applied and cures without the need of heat or pressure. Benefits: High build characteristic allow for single coat applications Tough resin structure resist thermal-mechanical shock Outstanding adhesion insures reliable performance Can be easily machined to exact tolerances Convenient 4-1 mix ratio and verification of mix by color change Performs well under fluctuating chemical environments Resists compression setting. Suggested Uses: Condensers li> Cooling Water Pumps Flange Faces Hydraulic Rams Keyways Valve Bodies Bearing Housings Shafts Spline Repairs Pitted Castings Heat Exchangers Pump Volutes Information provided by Chesterton

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chesterton-ARC-10-Paste-grade-machinable-composite.php

Physical Properties	Metric	English	Comments
Density	2.00 g/cc	0.0723 lb/in ³	Cured

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	ASTM D785
Hardness, Shore D	86	86	ASTM D2240
Tensile Strength at Break	27.6 MPa	4000 psi	ASTM D638
Flexural Strength	68.9 MPa	10000 psi	ASTM D790
Flexural Modulus	3.52 GPa	510 ksi	ASTM D790
Compressive Strength	89.6 MPa	13000 psi	ASTM D695
Taber Abrasion, mg/1000 Cycles	275 @Load 0.250 kg	275 @Load 0.551 lb	H-18/250g; ASTM D4060

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	66.0 °C	151 °F	Wet
	93.0 °C	199 °F	Dry

Processing Properties	Metric	English	Comments
Cure Time	60.0 min	1.00 hour	Tack Free

Processing Properties	@Temperature 32.0 °C Metric	@Temperature 89.6 °F English	Comments
	120 min	2.00 hour	Tack Free
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	150 min	2.50 hour	Light Load
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	180 min	3.00 hour	Tack Free
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	210 min	3.50 hour	Light Load
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	300 min	5.00 hour	Tack Free
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	420 min	7.00 hour	Light Load
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	540 min	9.00 hour	Light Load
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	960 min	16.0 hour	Full Load
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	1200 min	20.0 hour	Full Load
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	1800 min	30.0 hour	Full Chemical
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	2160 min	36.0 hour	Full Load
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	2160 min	36.0 hour	Full Chemical
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	2880 min	48.0 hour	Full Load
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	4320 min	72.0 hour	Full Chemical
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	5760 min	96.0 hour	Full Chemical
	@Temperature 10.0 °C	@Temperature 50.0 °F	

Descriptive Properties	Value	Comments
Color	Grey	

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